

Weekly Report (Jun 12~Jun 18)

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Done

Made a plan to improve the interaction and the visualization of eeVis for large data.

About the plan

The updated version may have the following features:

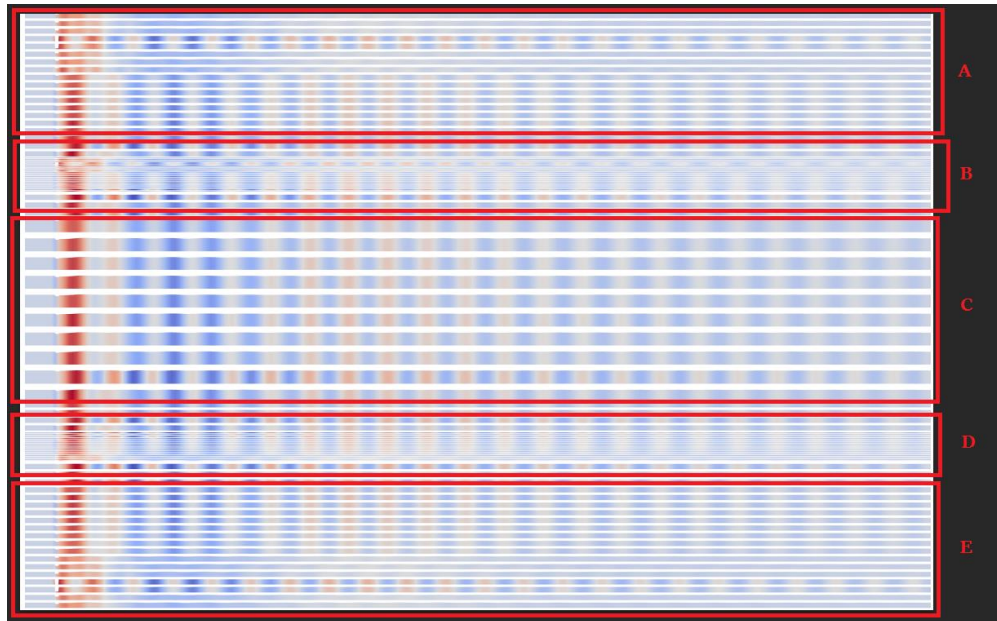
1. The initial view will automatically fit the data size which is not always around 2000 rows.
2. The user can view the visualization result at various zoom levels, including the most detailed level just like that of the small data samples.

About the implementation

The following describes the implementation:

1. If the data is detected as a “large data”, use the new main view.
2. Divide the new view into 5 parts for: (listed from top to bottom)
 - a) The initial scale
 - b) Zooming out to make room for c). It can be a gradual change
 - c) The current zoom level
 - d) Zooming out to make room for c). It can be a gradual change
 - e) The initial scale

The following figure shows the division:



Hence the view is a dynamic projection for y axis (one-dimension fish eye effect).

3. Use the slider on the left to move c) to different part of the data.
4. Use mouse wheel events or a small panel (to the left of the view) to zoom (events on the view are preserved for zooming on the time axis).
5. If c) is zoomed to the most detailed level, enable the original functions on it, such as showing individual IDs and connections to the topological view.